

ABSTRACT

5 Nucleic acid compositions encoding Stichodactylidae chromoproteins and
fluorescent mutants thereof, as well as the polypeptide compositions encoded by the
same, are provided. The proteins of interest are proteins that are colored and/or
10 fluorescent, where this feature arises from the interaction of two or more residues of the
protein. Also of interest are proteins that are substantially similar to, or mutants of, the
above specific proteins, including non-aggregating mutants and mutants with modulated
oligomerization characteristics as compared to wild type. Also provided are fragments of
the nucleic acids and the peptides encoded thereby, as well as antibodies to the subject
15 proteins and transgenic cells and organisms. The subject protein and nucleic acid
compositions find use in a variety of different applications. Finally, kits for use in such
applications, e.g., that include the subject nucleic acid compositions, are provided.

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